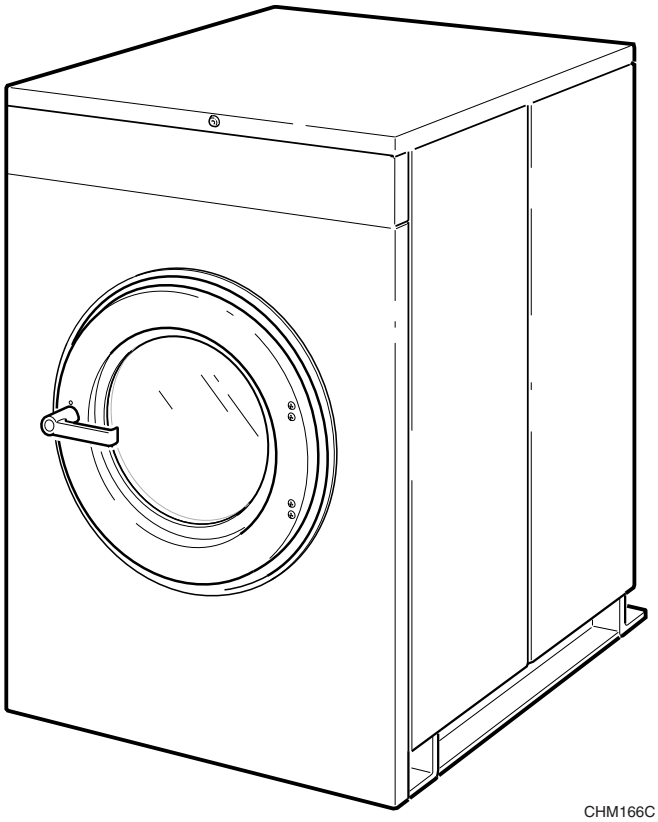
Washer-Extractors

Cabinet Hardmount
A-Series Microcomputer
2 Speed and Variable-Speed

Refer to Page 6 for Model Identification



CHM166C

Operation/Maintenance

Para bajar una copia de estas instrucciones
en español, visite www.comlaundry.com.

Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.comlaundry.com

Part No. F232198R4
January 2008

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Safety Information

Explanation of Safety Messages

Precautionary statements (“DANGER,” “WARNING” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.

DANGER

DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.

WARNING

WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.

CAUTION

CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable; do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.

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9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the bucket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
17. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc. or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
21. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
22. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
23. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
24. Always follow the fabric care instructions supplied by the textile manufacturer.
25. Never operate the washer with any guards and/or panels removed.
26. DO NOT operate the washer with missing or broken parts.
27. DO NOT bypass any safety devices.
28. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

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WARNING

This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.

SW004

IMPORTANT: Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

WARNING

Install the machine on a level floor of sufficient strength. Failure to do so may result in conditions which can produce serious injury, death and/or property damage.

W703

CAUTION

Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.

SW025

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

Use manufacturer-authorized spare parts to avoid safety hazards.

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Operator Safety

WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
2. Check door interlock before starting operation of the machine:
   a. Attempt to start the machine with the door open. The machine should not start with the door open.
   b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
   c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

   If the door lock and interlock are not functioning properly, call a service technician.
3. Do not attempt to operate the machine if any of the following conditions are present:
   a. The door does not remain securely locked during the entire cycle.
   b. Excessively high water level is evident.
   c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

WARNING

Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

SW039

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Introduction

Model Identification

Information in this manual is applicable to these models:

HC20AC2	HC30AL2	HC60ACV	HC80AYV	SC30AC2	SC40AX2	SC60AXF	UC40AN2
HC20ACV	HC30AX2	HC60AL2	SC20AC2	SC30ACV	SC40AY2	SC60AY2	UC40ANV
HC20AL2	HC30AY2	HC60ALF	SC20ACV	SC30AL2	SC40AYV	SC60AYF	UC60AN2
HC20AX2	HC30AYV	HC60AX2	SC20AL2	SC30AN2	SC60AC2	SC60AYV	UC60ANF
HC20AY2	HC40AC2	HC60AXF	SC20AN2	SC30AX2	SC60ACF	SC80ACV	UC60ANV
HC20AYV	HC40ACV	HC60AY2	SC20AX2	SC30AY2	SC60ACV	SC80ALV	UC80ANV
HC25AC2	HC40AL2	HC60AYF	SC20AY2	SC30AYV	SC60AL2	SC80ANV	UC125ANV
HC25AL2	HC40AX2	HC60AYV	SC20AYV	SC40AC2	SC60ALF	SC80AXV	
HC25AX2	HC40AY2	HC80ACV	SC25AC2	SC40ACV	SC60AN2	SC80AYV	
HC25AY2	HC40AYV	HC80ALV	SC25AL2	SC40AL2	SC60ANF	SC125ANV	
HC30AC2	HC60AC2	HC80ANV	SC25AX2	SC40AN2	SC60ANV	UC20AN2	
HC30ACV	HC60ACF	HC80AXV	SC25AY2	SC40ANV	SC60AX2	UC30AN2	

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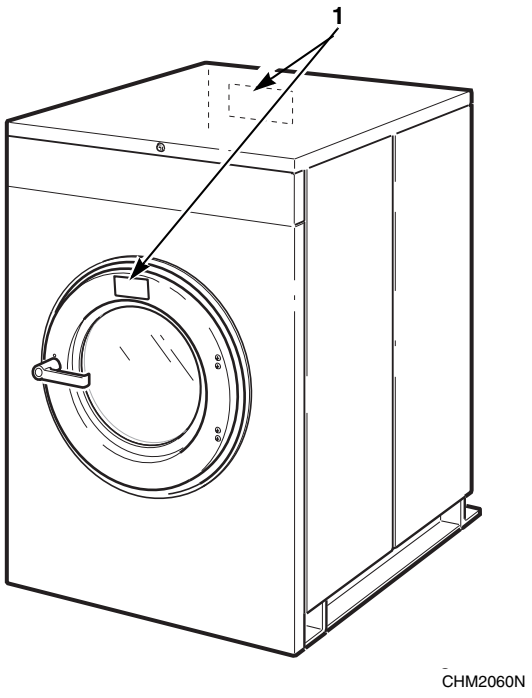
Nameplate Location

The nameplate is located at the rear of the machine and inside door. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance.



1 Nameplate

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, call (920) 748-3121 Ripon, Wisconsin.

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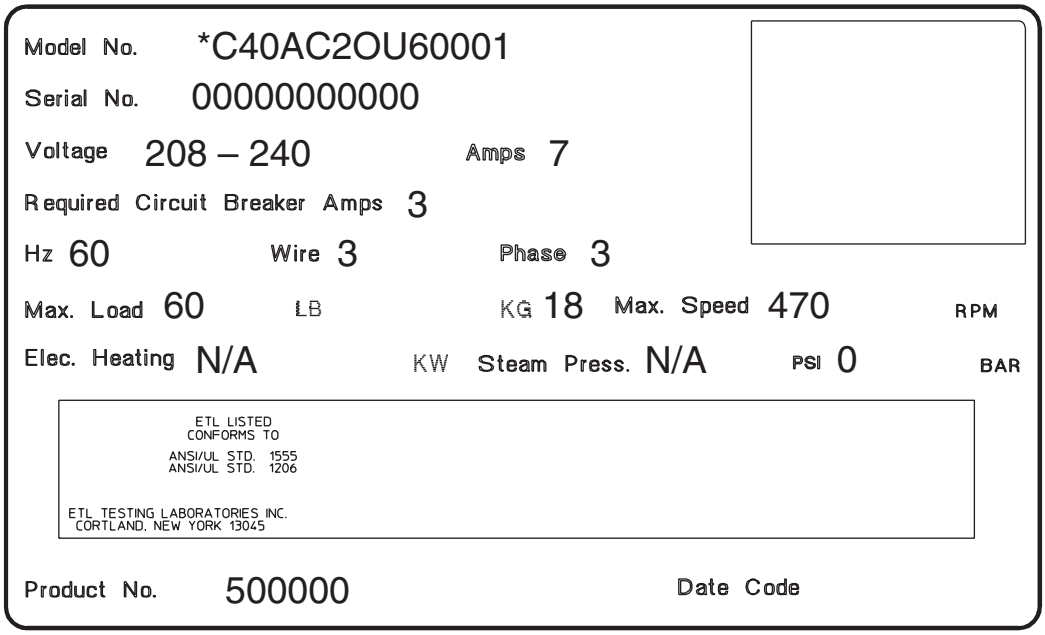
Model Number Familiarization Guide	
Sample Model Number: ***C40AC2OU60001**	
***C**	Model Number Prefix
40	Washer-Extractor Capacity (pounds dry weight)
A	Type of Electrical Control (A = A - Control)
C	Actuation (C = Coin drop)
2	Washer-Extractor Speed Capability (2 = 2 speed)
O	Electrical Characteristics
U6	Design Series
0001	Option Identification (varies from machine to machine)

* Denotes Brand



EXAMPLE OF NAMEPLATE

CHM2008N

Figure 2

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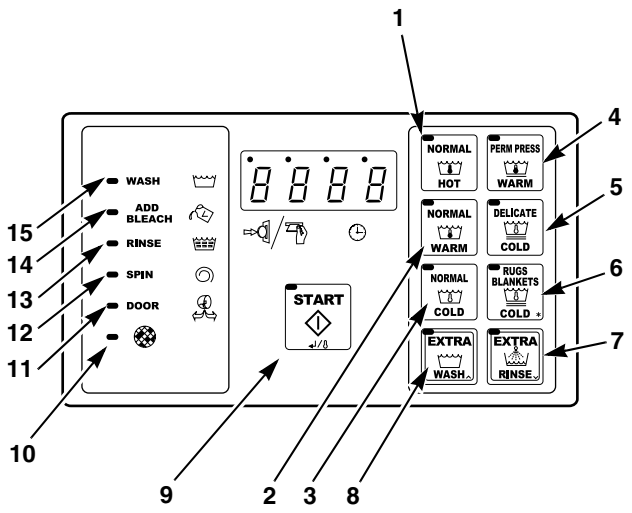
Operation

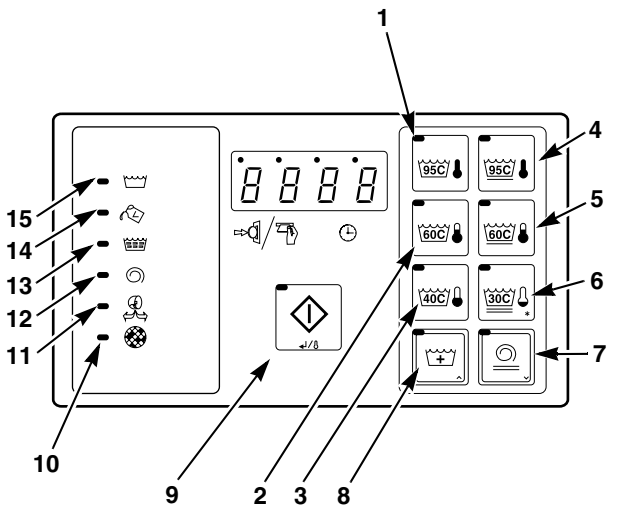
Control Panel

Figure 3 shows the control panels for A-series microcomputer machines for Vend models.



DOMESTIC MODELS

CHM477R



INTERNATIONAL MODELS

CHM478R

1	Normal/Hot Cycle Keypad “CY01”	**9**	START Keypad
2	Normal/Warm Cycle Keypad “CY02”	**10**	“Clean Filter” Indicator LED (Active for inverter drive models only)
3	Normal/Cold Cycle Keypad “CY03”		
4	Perm Press/Warm Cycle Keypad “CY04”	**11**	Door Open LED
5	Delicate/Cold Cycle Keypad “CY05”	**12**	Spin Cycle LED
6	Rugs Blankets/Cold Cycle (*) Keypad “CY06”	**13**	Rinse Cycle LED
7	Extra Rinse (∨) Keypad (modifier 2)	**14**	Add Bleach LED
8	Extra Wash (∧) Keypad (modifier 1)	**15**	Wash Cycle LED

Figure 3

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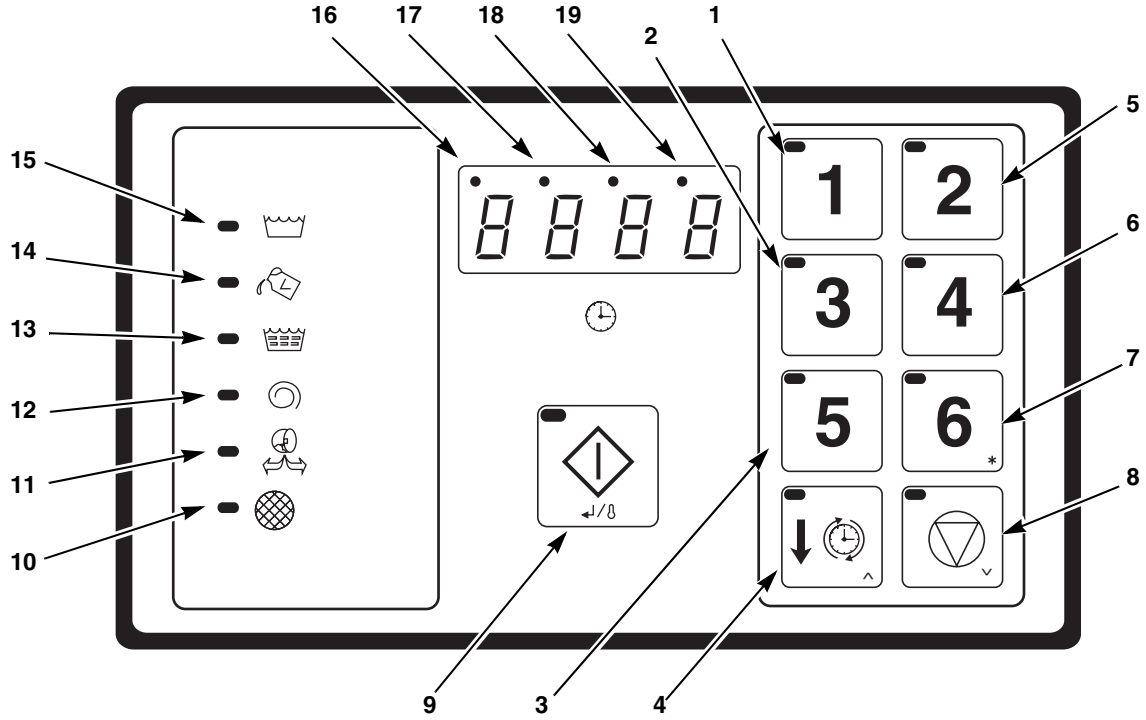
Operation

Figure 4 shows the control panel for A-series microcomputer machines for OPL models.



1	Cycle Keypad “1”	**11**	Door Open LED
2	Cycle Keypad “3”	**12**	Spin Cycle LED
3	Cycle Keypad “5”	**13**	Rinse Cycle LED
4	Rapid Advance/Up Edit	**14**	Add Bleach LED
5	Cycle Keypad “2”	**15**	Wash Cycle LED
6	Cycle Keypad “4”	**16**	Out-of-Balance Indicator Dot (Variable-speed only)
7	Cycle Keypad “6”	**17**	High Water Level Indicator Dot
8	Stop/Down Edit	**18**	Medium Water Level Indicator Dot
9	START Keypad	**19**	Low Water Level Indicator Dot
10	CLEAN FILTER Indicator LED		

Figure 4

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Display Indicators

Table 1 lists various displays and what they mean. The operator should become familiar with these machine displays.

Display	Meaning
bLCH	Control will also light “add bleach” indicator (only if SUPPLY 2 alone)
---C	The first 3 digits are reserved for temperature reading, C indicates “degrees Celsius”
SPEC	Special time of day pricing in effect, Vend models only
---F	The first 3 digits are reserved for temperature reading, F indicates “degrees Fahrenheit”
FILL	“Fill error” – machine did not fill to programmed water level within 10 minutes, displays during Rapid Advance Mode (if enabled)
dOOr	“Door” opened during cycle
SHUt/dOOr	Machine user must “shut door” of the washer to allow the cycle to begin
CAnt/OPEn	Control cannot unlock the door
dOnE	Cycle has concluded
----	Flashes for a period of time (for safety) after power up while keeping outputs OFF
01	Approximately one minute remaining in cycle (shows on display as right justified)
250	Vend remaining to be satisfied (shows on display as left justified)
Err	Card reader error
bAL/xxxx	Balance remaining (card system) is “xxxx” (xxxx = cash balance)
PULL/CArd	Remove card from card reader slot
Adv	Rapid Advance, displays during Rapid Advance mode (if enabled)
Erdn	Drain count error (will display for certain models)
Erfl	Fill error count (will display for certain models)
E Pr	The number of times power has been interrupted during a cycle (will display for certain models)
CyC	Cycle counter
USH1	“Wash 1” segment, displays during Rapid Advance Mode (if enabled)
USH2	“Wash 2” segment, displays during Rapid Advance Mode (if enabled)
USH3	“Wash 3” segment, displays during Rapid Advance Mode (if enabled)
USH4	“Wash 4” segment, displays during Rapid Advance Mode (if enabled)
rIn1	“Rinse 1” segment, displays during Rapid Advance Mode (if enabled)
rIn2	“Rinse 2” segment, displays during Rapid Advance Mode (if enabled)
rIn3	“Rinse 3” segment, displays during Rapid Advance Mode (if enabled)
rIn4	“Rinse 4” segment (final rinse), displays during Rapid Advance Mode (if enabled)
drAI	Drain step, displays during Rapid Advance Mode (if enabled); also indicates machine is in drain step during test cycle in 2-speed models

Table 1 (Continued)

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Display	Meaning
tESt	Diagnostic test cycle selected or enabled
SPIn	Spin (extract) step
SUP1	Supply signal 1 (“S1” output), normally detergent
SUP2	Supply signal 2 (“S2” output), normally bleach
SUP3	Supply signal 3 (“S3” output), normally softener
SUP4	Supply signal 4
SUP5	Supply signal 5
SUP6	Supply signal 6
SUP7	Supply signal 7
SdLY	Spin coast (motor coasts after high speed extract)
CFIL	Cold Fill
HFIL	Hot Fill
bFIL	Warm Fill (cold + hot)
PASS	Variable-speed ONLY – balance “PASS” condition; shows in “test” cycle only
FAIL	Variable-speed ONLY – balance “FAIL” condition; shows in “test” cycle only
bAL?	Variable-speed ONLY – meaning: “Do you wish to enter balance detection test routine?”
CY__	Cycle number (followed by number 1 through 46)
SPn1	Variable-speed ONLY – low spin speed (the lowest of 3 spin speeds)
SPn2	Variable-speed ONLY – medium spin speed (the middle of 3 spin speeds)
SPn3	Variable-speed ONLY – high spin speed (the highest of 3 spin speeds)
For	Wash speed forward (during test cycle)
rEv	Wash speed reverse (during test cycle)
dISt	Variable-speed ONLY – distribution speed (during test cycle)
LO	Low water level
nEd	Medium water level
HI	High water level
CEL	Display all temperatures in degrees Celsius
FAr	Display all temperatures in degrees Fahrenheit
rIn5	“Rinse 5” segment
rIn6	“Rinse 6” segment (final rinse)
AG1	Agitation 1: 18 seconds forward, 3 seconds off, 18 seconds reverse, 3 seconds off
AG2	Agitation 2: 3 seconds forward, 27 seconds off, 3 seconds reverse, 27 seconds off
AG3	Agitation 3: 10 seconds forward, 20 seconds off, 10 seconds reverse, 20 seconds off
AG4	Agitation 4: 4 seconds forward, 56 seconds off, 4 seconds reverse, 56 seconds off

Table 1

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Operating Instructions (Vend Models)

NOTE: Opening the coin box while in Run Mode and before a cycle has started will put control into Audit Mode. Display will show "Audt". To revert back to Run Mode, close coin box and press START keypad.

1. Turn on main power source (circuit breaker).
2. Push button and turn handle clockwise to open. Refer to *Figure 5*.

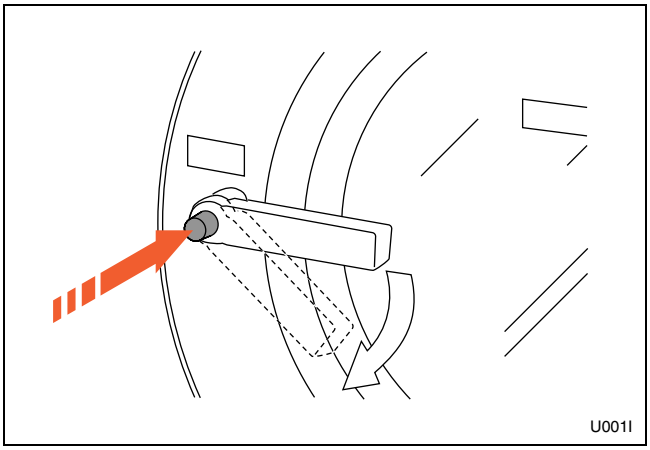


Figure 5

3. Load to capacity whenever possible. Refer to *Figure 6*.

NOTE: Underloading can cause out-of-balance conditions that can shorten machine life.

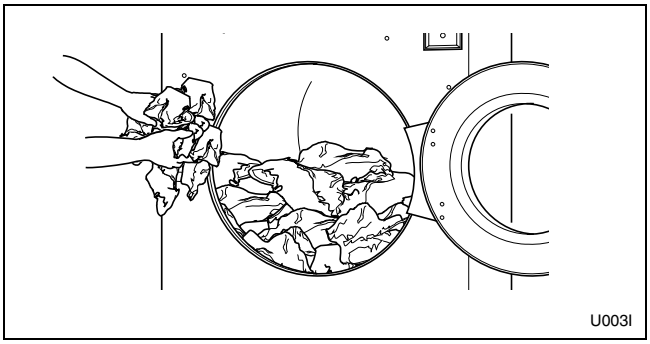


Figure 6

4. Close door and turn handle counterclockwise until button pops out. Refer to *Figure 7*.

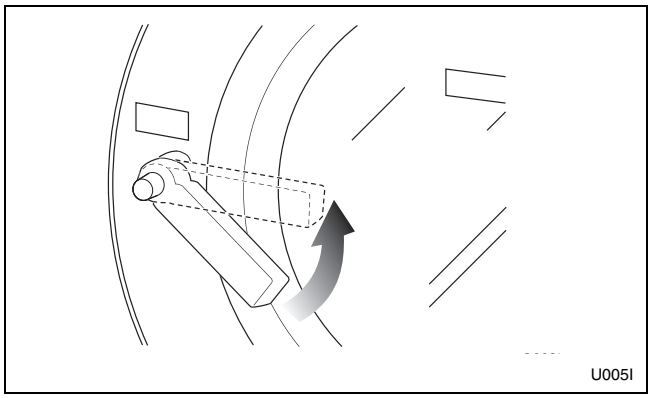


Figure 7

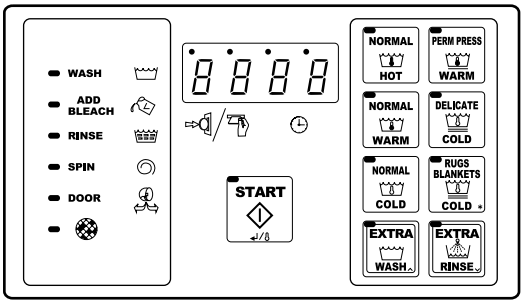
5. The default wash cycle will display.

NOTE: The default cycle is Normal/Cold (Domestic Models) or Perm Press 60°C (International Models) for coin models if no cycle is selected. Refer to *Figure 8*.

WARNING

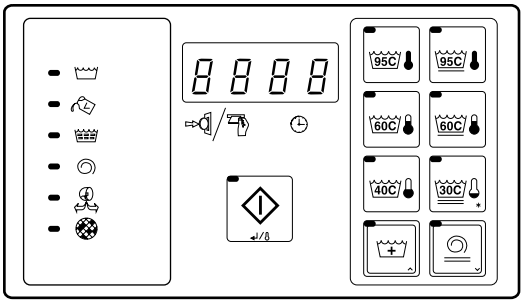
To avoid personal injury, recommended inlet water temperature should be no higher than 125° Fahrenheit (51° Celsius).

W709



DOMESTIC MODELS

CHM477R



INTERNATIONAL MODELS

CHM480R

Figure 8

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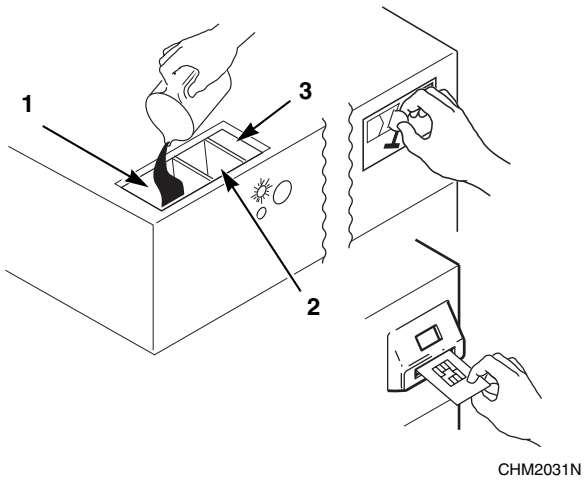
6. If desired, select a different cycle at this point or after satisfying vend. The LED indicator for that cycle will light.
7. Select EXTRA WASH and/or EXTRA RINSE if desired.
8. Add liquid and/or powder supplies to supply dispenser. Refer to *Figure 9*.
   a. Add detergent to compartment 1.
   b. Add softener to compartment 3.



1	Detergent
2	Bleach
3	Softener

Figure 9

9. If the machine is a coin operated unit, add coins. As each coin is added, the display counts down to the amount remaining.
10. If the machine is a card operated unit, insert and remove card per card system instructions.
11. If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment, select the machine, and follow central/remote pay system instructions.
12. Press the desired wash cycle key if it has not already been selected.

NOTE: Once START keypad is pressed, the selected wash cycle is locked in and wash cycle will begin.

13. Press the START keypad.
14. Add bleach if and when prompted (display will show “bLCH” for 45 seconds, or until water level is reached, signal will sound on and off for 8 seconds [if set up for “bEEP”] and Add Bleach indicator lights).

NOTE: If the version of the control in machine is capable of reading temperature and control is not in Audit Mode, pressing the START keypad while a cycle is running will cause display to show temperature briefly. Display will revert to time remaining automatically after about 2 – 3 seconds.

15. When cycle is complete, display shows “dOnE”, the Door Open LED lights and door can be opened.

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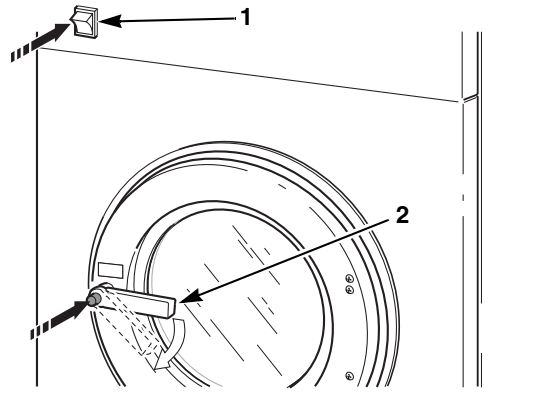
Operating Instructions (OPL Models)

1. Turn on main power source.
2. With left hand, push and hold white rocker switch. Refer to *Figure 10*.
3. Push button and turn handle clockwise to open door. Refer to *Figure 10*.



1 Rocker Switch
2 Handle

Figure 10

4. Load to capacity whenever possible. DO NOT OVERLOAD. Refer to *Figure 11*.

NOTE: Underloading can cause out-of-balance conditions that can shorten machine life.

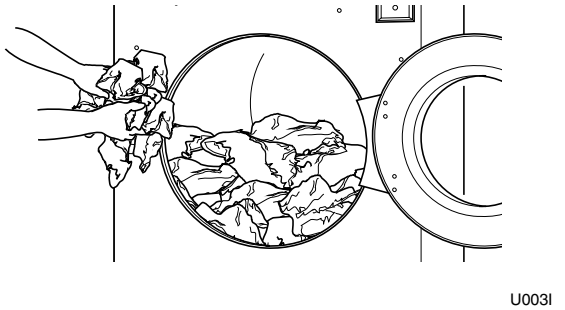


Figure 11

5. Close door and turn handle counterclockwise until button pops out. Refer to *Figure 12*.

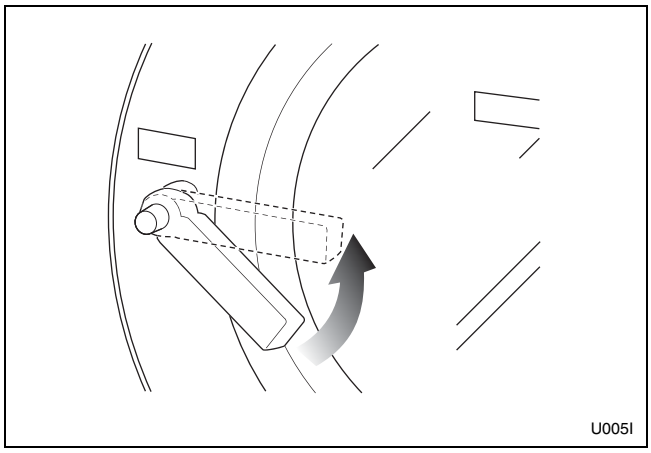


Figure 12

6. The default wash cycle will display. Refer to *Figure 13*.

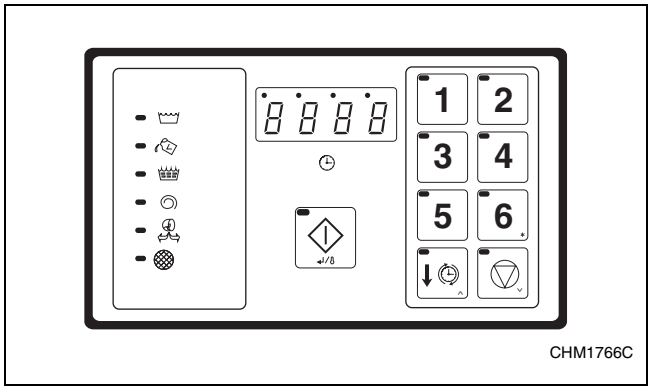


Figure 13

WARNING

To avoid personal injury, recommended inlet water temperature should be no higher than 125° Fahrenheit (51° Celsius).

W709

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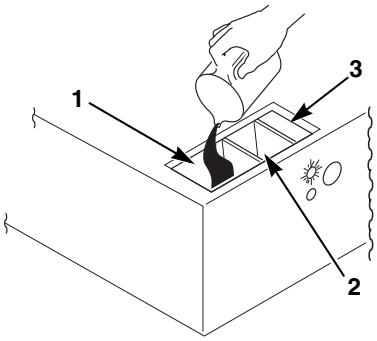
7. If desired, select a different cycle at this point. Refer to *Table 2*.

Cycle Number	Cycle Name
1	Permanent Press Light Soil
2	Cotton Terrycloth Light Soil
3	Permanent Press Medium Soil
4	Cotton Terrycloth Medium Soil
5	Permanent Press Heavy Soil
6	Cotton Terrycloth Heavy Soil
11	Table Napery Blends Colors
12	Table Napery Blends Whites
13	VISA Table Napery Colors
14	VISA Table Napery Whites
15	Rags Heavy Soil
16	Reclaim
21	Personals with Bleach
22	Personals No Bleach
23	Delicates Spreads Cold Water
24	Delicates Spreads Warm Water
25	Custom #1
26	Custom #2
31	Normal 90°C (Pre Wash)
32	Normal 90°C
33	Normal 60°C (Pre Wash)
34	Normal 60°C
35	Normal 40°C (Pre Wash)
36	Custom #3
41	Permanent Press 90°C (Pre Wash)
42	Permanent Press 90°C
43	Permanent Press 60°C (Pre Wash)
44	Permanent Press 60°C
45	Fine 40°C
46	Custom #4

Table 2

8. Add liquid and/or powder supplies to supply dispenser. Refer to *Figure 14*.
   a. Add detergent to compartment 1.
   b. Add softener to compartment 3.
   c. **When applicable**, add bleach to compartment 2 when the ADD BLEACH LED is lit.



1 Detergent
2 Bleach
3 Softener

Figure 14

9. Press the desired wash cycle number.
10. Press the START keypad.
11. To stop the wash cycle early, press STOP on the keypad.
12. When cycle is complete, display shows “dOnE”.

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Maintenance

WARNING

Sharp edges can cause personal injury. Wear safety glasses and gloves, use proper tools and provide lighting when handling sheet metal parts.

W366R1

IMPORTANT: Replace all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

Daily

IMPORTANT: Door lock should be checked daily to ensure proper operation. Also check that all safety and instruction stickers are on the machine. Any missing or illegible safety instructions stickers should be replaced immediately.

Beginning of Day

1. Inspect water inlet valve hose connections on the back of the machine for leaks.
2. Inspect steam hose connections for leaks (where applicable).
3. Check door interlock before starting operation:
   a. Attempt to start the machine with the door open. The machine should not start with the door open.
   b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
   c. Close and lock the door, and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

   If the door lock and interlock are not functioning properly, call a service technician.

End of Day

1. Clean the door gasket of residual detergent and all foreign matter.
2. Clean between the door gasket and the door glass with a damp cloth.
3. Clean automatic supply dispenser lid and general area. Flush dispenser with clean water.
4. Clean the machine's top, front and side panels with mild detergent. Rinse with clean water.
5. Leave loading door open at the end of each day to allow moisture to evaporate.

NOTE: Unload the machine promptly *after each completed cycle* to prevent moisture buildup. Leave loading door open *after each completed cycle* to allow moisture to evaporate.

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Weekly

1. **For variable-speed models only**, clean the AC drive box filter(s) weekly or more frequently as needed:

NOTE: If fan filter service indicator light is on, fan filter must be cleaned immediately to prevent possible damage. Thermostat automatically resets after drive compartment cools down. LED will go out after cycle run.

IMPORTANT: If filter indicator is ignored, repeated resets might shorten life of drive. Clean filter regularly to avoid indicator prompt.

   a. Open the top cover.

   b. Grasp the filter handle and pull straight up to remove filter.

   c. Wash the filter with warm water and allow filter to air dry. As an alternative, the filter may be vacuumed clean.

IMPORTANT: The control module cover and fan filter must be in place for the fan to properly cool the AC inverter drive. Failure to observe this warning will void the warranty and could lead to expensive AC inverter drive repair.

2. Check the machine for leaks.

   a. Start an unloaded cycle to fill the machine.

   b. Verify that door and door gasket do not leak.

   c. Verify that the drain valve is operating and that the drain system is free from obstruction. If water does not leak out during the first wash segment, the drain valve is closed and functioning properly.

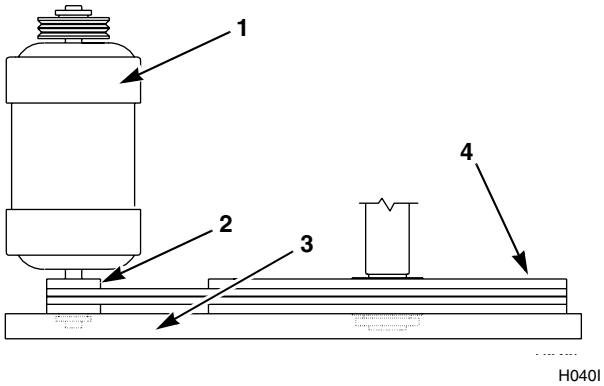
Monthly

NOTE: Disconnect power to the machine at its source before performing the monthly maintenance procedures.

1. Use the following procedures to determine if V-belt(s) require replacement or adjustment. Call a qualified service technician in either case.

   a. Check V-belt(s) for uneven wear and frayed edges.

   b. For groove-pulley drive systems, verify alignment by placing a straightedge across both pulley faces. The straightedge should make contact with the pulleys in four places. Refer to *Figure 15*.



1	Motor
2	Motor Pulley
3	Straightedge
4	Basket Pulley

Figure 15

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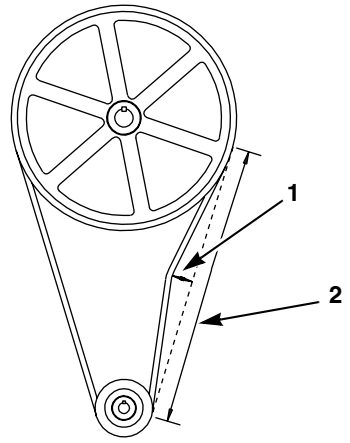
c. For flat-pulley drive systems, verify allowable distance of belt from edge of pulley. Refer to *Table 3* below.

Flat-Pulley Alignment	
Model	**Allowable Distance from Edge**
20	.09 in. (2 mm)
25	.09 in. (2 mm)
30	.09 in. (2 mm)
40	.09 in. (2 mm)
50-60	.38 in. (10 mm)

Table 3

d. **For variable-speed models only**, verify that v-belts are properly tensioned by applying a set force to the belt and measuring the deflection to determine the belt tension. Refer to *Table 4* for the acceptable belt tension ranges. Belt tension measurements should be taken as close to the center of the belt span as possible. Refer to *Figure 16*.



1 Deflection
2 Span Length

Figure 16

Belt Tension Testing for Variable-Speed Models				
Model	**Belt**	**Belt Span**	**Deflection Range**	**Force Min – Max**
20	Motor-Basket	15 in. (381 mm)	.31 – .34 in. (7.8 – 8.5 mm)	6.3 – 7 lbs. (28 – 31 N)
30	Motor-Basket	13.8 in. (350 mm)	.34 – .41 in. (9.3 – 10.2 mm)	7.2 – 8 lbs. (32 – 36 N)
35, 40	Motor-Basket	16.9 in. (428 mm)	.31 – .34 in. (7.9 – 8.7 mm)	6.1 – 7.4 lbs. (27 – 33 N)
60	Motor-Basket	16.8 in. (426 mm)	.28 – .31 in. (7.1 – 7.9 mm)	6.1 – 7.4 lbs. (27 – 33 N)
80	Motor-Basket Single Belt	22.1 in. (561 mm)	.47 – .5 in. (11.9 – 12.7 mm)	4.9 – 7.3 lbs. (21.8 – 31.5 N)
80	Motor-Basket Banded Belt	22.1 in. (561 mm)	.22 – .25 in. (5.08 – 6.35 mm)	23 – 26 lbs. (102.3 – 115.6 N)
125	Motor-Basket	50 in. (1270 mm)	.78 in. (20 mm)	5 – 7 lbs. (22 – 31 N)

Table 4

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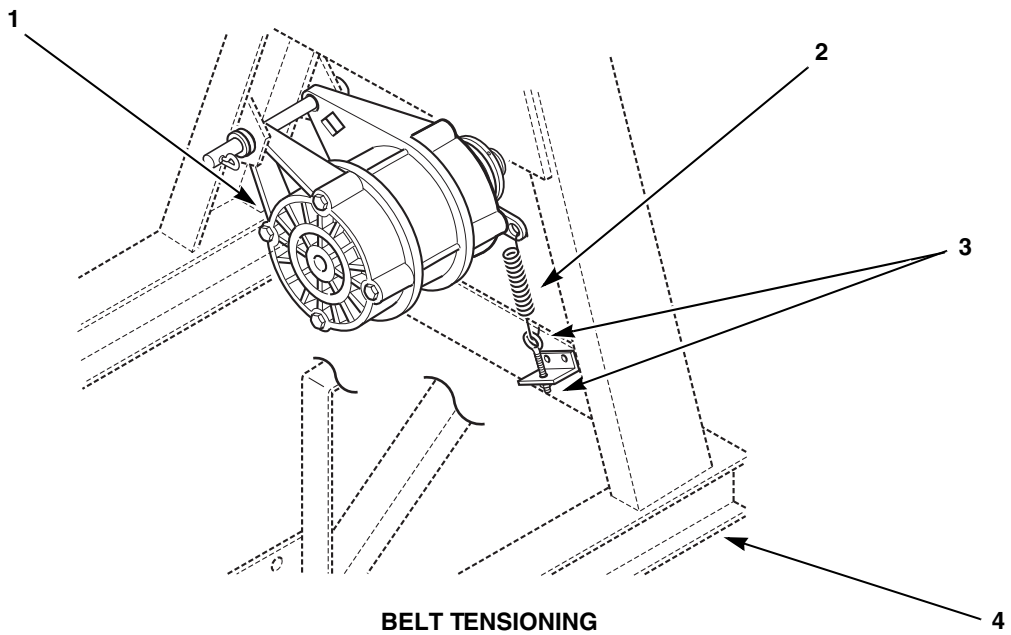

BELT TENSIONING
(40, 50 AND 60 VARIABLE-SPEED MODELS ONLY)

CHM2009N

1 Motor
2 Belt Tension Spring
3 Adjust Eye Bolt for Belt Tensioning
4 Frame

Figure 17

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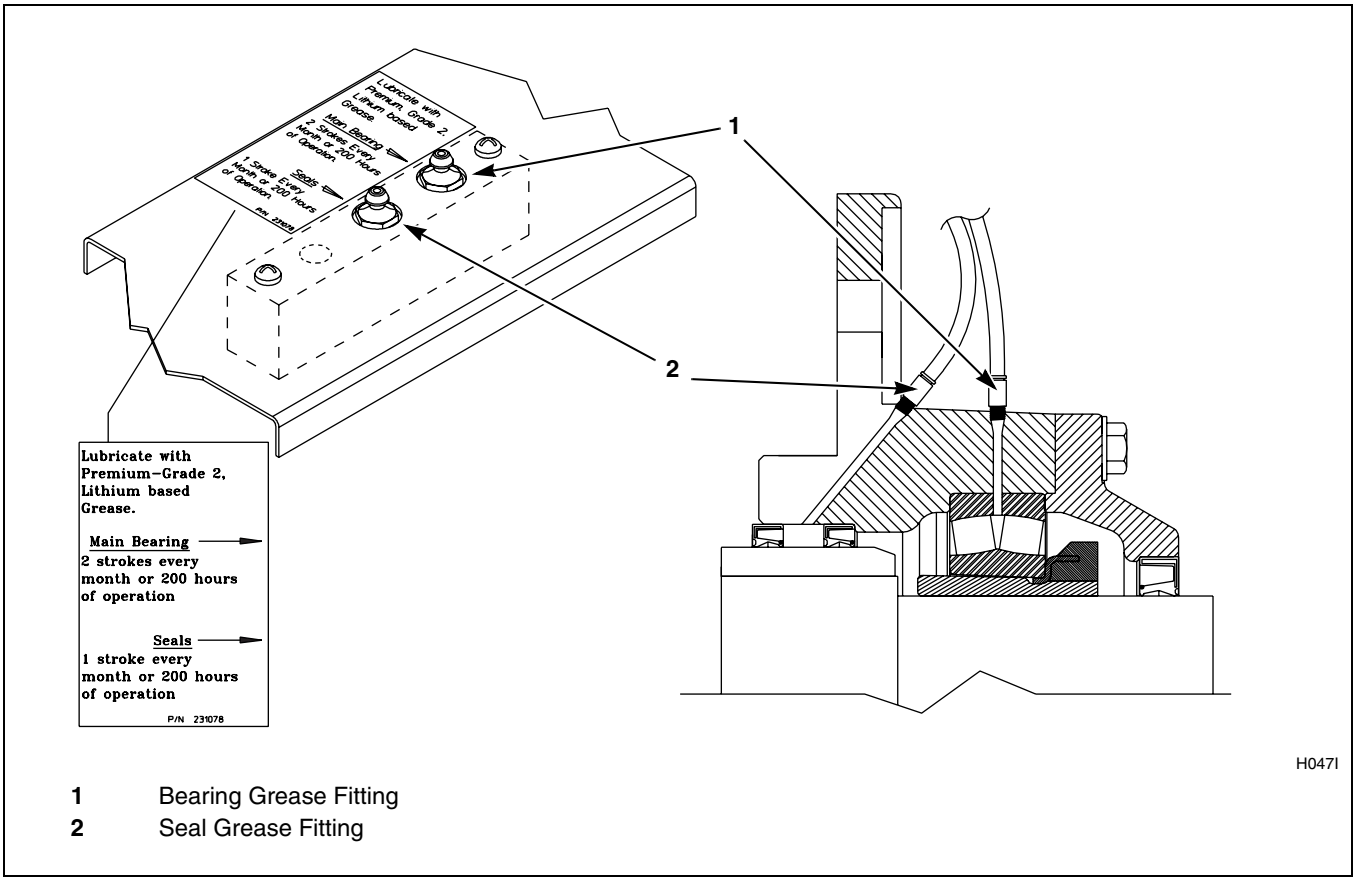

1 Bearing Grease Fitting
2 Seal Grease Fitting

Figure 18

2. **For 80 pound capacity models only**, lubricate bearings and seals each month OR after every 200 hours of operation. Refer to *Figure 18*.
   a. Use a premium-grade lithium-based #2 grease. Never mix two types of grease, such as petroleum and silicone.
   b. Pump the grease gun slowly, permitting only the following number of strokes:
      - Bearing grease fitting, 2 strokes
      - Seal grease fitting, 1 stroke

NOTE: Do not pump the grease gun until grease comes out of the bearing housing. This can result in overlubrication, causing damage to bearings and seals.

3. Remove back panel and check overflow hose and drain hose for leaks.
4. Unlock the hinged lid and check the supply dispenser hoses and hose connections.
5. Clean inlet hose filter screens:
   a. Turn water off and allow valve to cool, if necessary.
   b. Unscrew inlet hose and remove filter screen.
   c. Clean with soapy water and reinstall. Replace if worn or damaged.
6. Tighten motor mounting bolt locknuts and bearing bolt locknuts. Check to see that the pin is in place.

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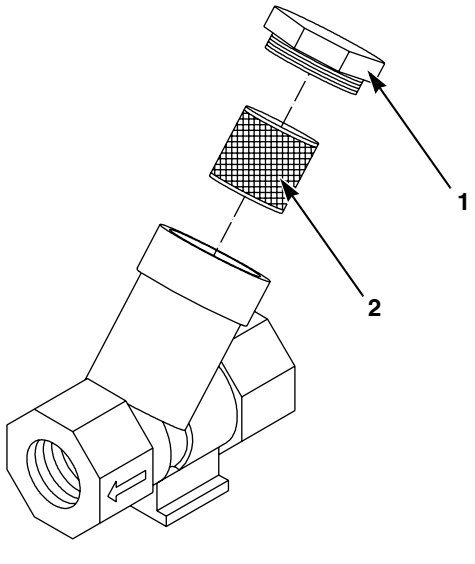
7. Use compressed air to clean lint from motor.
8. Clean interior of machine, both basket and shell, by wiping with a water-soaked sponge or cloth.
9. Use compressed air to clean all electrical components of moisture and dust.
10. Verify the insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.
11. **For variable-speed models only**, clean AC drive cooling fan blades monthly (more often if required by the condition of the air).
    a. Open the top cover and remove the control module cover.
    b. Gently wipe the fan blades clean with a dry cloth.

Quarterly

NOTE: Disconnect power to the machine at its source before performing the quarterly maintenance procedures.

1. Tighten door hinges and fasteners, if necessary.
2. Using a Teflon-based spray lube, lubricate the door lock by applying the spray to the door lock pin while turning the door handle.
3. Tighten anchor bolts, if necessary.
4. Verify that the drain motor shield is in place and secure, if so equipped.
5. Check all painted surfaces for exposed metal. (Matching paint is available from the manufacturer.)
   - If bare metal is showing, paint with primer or solvent-based paint.
   - If rust appears, remove it with sandpaper or by chemical means and then paint the affected area with primer or solvent-based paint.
6. Clean customer-supplied steam filter, where applicable. Refer to *Figure 19*.
   a. Turn off steam supply and allow time for the valve to cool.
   b. Unscrew Cap.
   c. Remove Element and clean.
   d. Replace Element and Cap.



1 Cap
2 Filter Element

Figure 19

7. For variable speed and F-speed models only, measure the out-of-balance switch gap setting and adjust it as needed. The switch gap settings are listed in the ***Installation*** manual, which is supplied with the machine.
8. Check the bearing mounting bolts to make sure they are torqued properly. Refer to *Table 5* for specifications.

Machine Capacity	Bearing	Torque
18-25	All	75 ft.-lbs.
27-60	All	105 ft.-lbs.
80	Front	200 ft.-lbs.
80	Rear	97 ft.-lbs.
125	Front	500 ft.-lbs.
125	Rear	140 ft.-lbs.

Table 5

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Care of Stainless Steel

- Remove dirt and grease with detergent and water. Thoroughly rinse and dry after washing.
- Avoid contact with dissimilar metals to prevent galvanic corrosion when salty or acidic solutions are present.
- Do not allow salty or acidic solutions to evaporate and dry on stainless steel. Wipe clean of any residues.
- Rub in the direction of the polish lines or “grain” of the stainless steel to avoid scratch marks when using abrasive cleaners. Use stainless steel wool or soft, non-metal bristle brushes. Do not use ordinary steel wool or steel brushes.
- If the stainless steel appears to be rusting, the source of the rust may be an iron or steel part not made of stainless steel, such as a nail or screw. Tip: Paint all carbon steel parts with a heavy protective coating. Stainless steel fasteners should be used whenever possible.
- Remove discoloration or heat tint from overheating by scouring with a powder or by employing special chemical solutions.
- Do not leave sterilizing solutions on stainless steel equipment for prolonged periods of time.
- When an external chemical supply is used, ensure no siphoning of chemicals occurs when the washer-extractor is not in use. Highly concentrated chemicals can cause severe damage to stainless steel and other components within the machine. Damage of this kind is not covered by the manufacturer’s warranty. Locate the pump and tubing below the washer-extractor’s injection point to prevent siphoning of chemicals into the machine.

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